

IBM 3895
Document Reader/Inscriber

IBM
3895



Photo is of a design model.

Product Description

The 3895 is an automatic document reader and inscribing device designed for use in large commercial banks. It will attach to a multiplexer, selector or block multiplexer channel on System 370, Models 125-2, 135, 138, 145, 148, 155 II, 158, 165 II, and 168.

The primary function of the machine is to optically read a check's hand-printed or machine-printed dollar and cent amount, transfer the information to the host processor, inscribe the amount on the check in magnetic ink, and endorse and selectively stack the documents.

Maintenance Features

Offline Diagnostics

Microdiagnostics fault locate electronic failures and exercise the electrical and mechanical functions. Some of the diagnostics reside on the microprogram disk and are executed with each CSL (Control Storage Load) operation. Five other microdiagnostic disks are loaded via the 33FD.

Online Tests

3895 is supported with OLT tests to measure mechanical and electrical responses of motors, clutches, etc. These tests will run under OLTSEP or OLTEP.

ST370 will also be available to exercise the 3895 in a system test.

The 3895 is microcode controlled and uses a 33FD flexible disk drive as a loading device. There are 136K bytes of storage, 72K for control storage and 64K for document information. The processor is comprised of 26 boards of logic.

The 3895 will process documents at a rated speed of 525 six-inch documents per minute. Throughput is dependent on document size and functions performed.

Two CE Panels

Multi-Function Panel

This panel is used to display registers, storages, buffers, etc. of the 3895 functional units. The panel consists of:

- 128 position roller chart, 18 back lights
- 27 fixed lights (OCR Processor Control Regulator)
- 6 hex data switches
- 4 hex address switches

Video Panel

Four rotary control selection switches and eight indicator lights are used to adjust video controls and circuits.

Standard Features

The 3895 features are controlled by the user's application program. The features are:

- Main Feed (deposit slips and checks)
- Merge Feed (injection of special documents)
- MICR (MICR number 1 reads pre-encoded codeline and MICR number 2 verifies inscribe operation)
- Scanner (optically reads document dollar and cent amounts)
- Printer (prints OCR-B font)
- Inscrber (E13B font)
- Endorser and Stacker

Sense Data

There are 304 bytes of sense data available as follows:

- Basic Sense - 2 bytes, define unit check conditions.
- Processor Sense - 32 bytes, define errors in OCR Processor.
- Extended Sense - 32 bytes, define errors in functional units.
- Predictor Sense Counters - 238 bytes, monitor conditions of 3895 during normal operation, measure machine degradation and predict when deferred maintenance is required.

Models

- Model I - 6-pocket stacker
- Model II - 12-pocket stacker

Technology

Electronic

- Transistor - Transistor logic (TTL), SMS, SLT, MST, and cathode ray scanning.

Electro-Mechanical

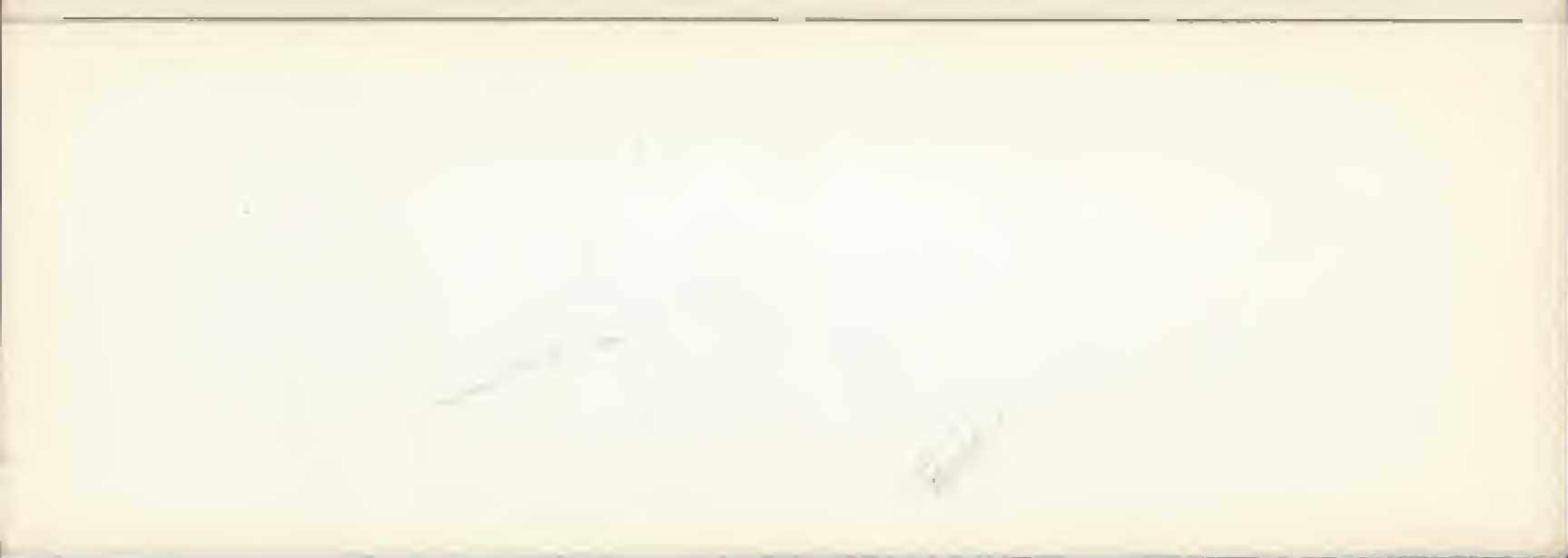
- MICR Read (similar to 1255)
- OCR Read (similar to 1287)
- Printer/Inscrber
- Endorser

Remote Maintenance Support

Retain/370 Data Bank will support the 3895.

FE Career Path

"General Systems" product.



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